CSE-484

Assignment-1
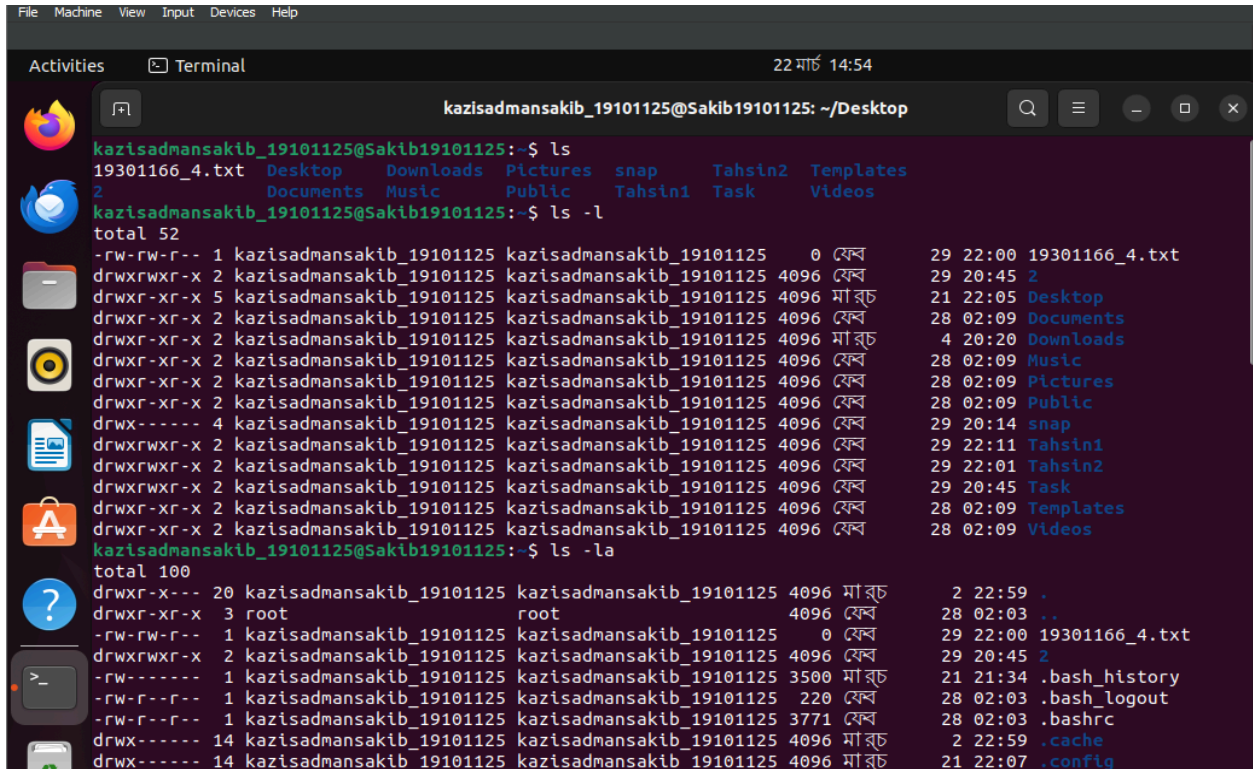
Name: Kazi Sadman Sakib
ID::19101125
Section:01

20 Basic Ubuntu Commands:

Screenshots:

kazisadmansakib_19101125@Sakib19101125: ~/Desktop

drwxr-xr-x 2 kazisadmansakib_19101125 kazisadmansakib_19101125 4096 ফেব   28 02:09 Videos
kazisadmansakib_19101125@Sakib19101125:~$ pwd
/home/kazisadmansakib_19101125
kazisadmansakib_19101125@Sakib19101125:~$ cd ..
kazisadmansakib_19101125@Sakib19101125:/home$ pwd
/home
kazisadmansakib_19101125@Sakib19101125:/home$ ls
kazisadmansakib_19101125
kazisadmansakib_19101125@Sakib19101125:/home$ cd
kazisadmansakib_19101125@Sakib19101125:~$ ls
19301166_4.txt   Desktop   Downloads Pictures   snap   Tahsin2   Templates
2   Documents   Music   Public   Tahsin1   Task   Videos
kazisadmansakib_19101125@Sakib19101125:~$ pwd
/home/kazisadmansakib_19101125
kazisadmansakib_19101125@Sakib19101125:~$ cd Desktop
kazisadmansakib_19101125@Sakib19101125:~/Desktop$ ls
  2   'Assignment2_Tahsinul Islam Abir_19301166.zip'   tahsin.txt
 Assignment   courseinformation.txt
 Assignment2   tahsin3
kazisadmansakib_19101125@Sakib19101125:~/Desktop$ touch file
kazisadmansakib_19101125@Sakib19101125:~/Desktop$ cat > file2
Welcome to CSE-484
^Z
[1]+ Stopped   cat > file2
kazisadmansakib_19101125@Sakib19101125:~/Desktop$ cat file2
Welcome to CSE-484
kazisadmansakib_19101125@Sakib19101125:~/Desktop$ cat >> file2
Hello, I am Kazi Sadman Sakib
^Z
[2]+ Stopped   cat >> file2

---

kazisadmansakib_19101125@Sakib19101125: ~/Desktop

kazisadmansakib_19101125@Sakib19101125:/home$ pwd
/home
kazisadmansakib_19101125@Sakib19101125:/home$ ls
kazisadmansakib_19101125
kazisadmansakib_19101125@Sakib19101125:/home$ cd
kazisadmansakib_19101125@Sakib19101125:~$ ls
19301166_4.txt   Desktop   Downloads Pictures   snap   Tahsin2   Templates
2   Documents   Music   Public   Tahsin1   Task   Videos
kazisadmansakib_19101125@Sakib19101125:~$ pwd
/home/kazisadmansakib_19101125
kazisadmansakib_19101125@Sakib19101125:~$ cd Desktop
kazisadmansakib_19101125@Sakib19101125:~/Desktop$ ls
  2   'Assignment2_Tahsinul Islam Abir_19301166.zip'   tahsin.txt
 Assignment   courseinformation.txt
 Assignment2   tahsin3
kazisadmansakib_19101125@Sakib19101125:~/Desktop$ touch file
kazisadmansakib_19101125@Sakib19101125:~/Desktop$ cat > file2
Welcome to CSE-484
^Z
[1]+ Stopped   cat > file2
kazisadmansakib_19101125@Sakib19101125:~/Desktop$ cat file2
Welcome to CSE-484
kazisadmansakib_19101125@Sakib19101125:~/Desktop$ cat >> file2
Hello, I am Kazi Sadman Sakib
^Z
[2]+ Stopped   cat >> file2
kazisadmansakib_19101125@Sakib19101125:~/Desktop$ cat file2
Welcome to CSE-484
Hello, I am Kazi Sadman Sakib
kazisadmansakib_19101125@Sakib19101125:~/Desktop$

kazisadmansakib_19101125@Sakib-19101125: ~

```
kazisadmansakib_19101125@Sakib-19101125:~$ whoami
kazisadmansakib_19101125
kazisadmansakib_19101125@Sakib-19101125:~$ hostname
Sakib-19101125
kazisadmansakib_19101125@Sakib-19101125:~$ sudo apt-get update
[sudo] password for kazisadmansakib_19101125:
Get:1 https://download.docker.com/linux/ubuntu jammy InRelease [48.8 kB]
Hit:2 http://us.archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:4 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Hit:5 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease
Get:6 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1,5
02 kB]
Get:7 http://us.archive.ubuntu.com/ubuntu jammy-updates/main i386 Packages [594
kB]
Get:8 http://us.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages
[1,059 kB]
Get:9 http://us.archive.ubuntu.com/ubuntu jammy-updates/universe i386 Packages [
697 kB]
Get:10 http://us.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en
 [240 kB]
Fetched 4,370 kB in 12s (376 kB/s)
Reading package lists... Done
W: https://download.docker.com/linux/ubuntu/dists/jammy/InRelease: Key is stored
```

kazisadmansakib_19101125@Sakib-19101125: ~

```
 in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION secti
on in apt-key(8) for details.
kazisadmansakib_19101125@Sakib-19101125:~$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages have been kept back:
  ubuntu-advantage-tools ubuntu-pro-client-l10n
The following packages will be upgraded:
  alsa-ucm-conf containerd.io cups cups-bsd cups-client cups-common
  cups-core-drivers cups-daemon cups-ipp-utils cups-ppdc cups-server-common
  docker-buildx-plugin docker-ce docker-ce-cli docker-ce-rootless-extras
  docker-compose-plugin dpkg dpkg-dev libcups2 libcupsimage2 libdpkg-perl
  libgpgme11 libgpgmepp6 libldap-2.5-0 libldap-common linux-firmware
  python3-update-manager update-manager update-manager-core
29 to upgrade, 0 to newly install, 0 to remove and 2 not to upgrade.
Need to get 392 MB of archives.
After this operation, 8,861 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 https://download.docker.com/linux/ubuntu jammy/stable amd64 containerd.io
amd64 1.6.28-2 [29.7 MB]
Get:2 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dpkg amd64 1.
21.1ubuntu2.3 [1,239 kB]
```

kazisadmansakib_19101125@Sakib-19101125: ~

```
Processing triggers for ufw (0.36.1-4ubuntu0.1) ...
kazisadmansakib_19101125@Sakib-19101125:~$ sudo apt-get install aft
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed
  aft
0 to upgrade, 1 to newly install, 0 to remove and 2 not to upgrade.
Need to get 65.6 kB of archives.
After this operation, 241 kB of additional disk space will be used.
Get:1 http://us.archive.ubuntu.com/ubuntu jammy/universe amd64 aft all 2:5.098-4
.1 [65.6 kB]
Fetched 65.6 kB in 2s (41.9 kB/s)
Selecting previously unselected package aft.
(Reading database ... 237496 files and directories currently installed.)
Preparing to unpack .../aft_2%3a5.098-4.1_all.deb ...
Unpacking aft (2:5.098-4.1) ...
Setting up aft (2:5.098-4.1) ...
Processing triggers for man-db (2.10.2-1) ...
kazisadmansakib_19101125@Sakib-19101125:~$ sudo apt-get remove aft
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages will be REMOVED
```

kazisadmansakib_19101125@Sakib-19101125: ~

```
Removing aft (2:5.098-4.1) ...
Processing triggers for man-db (2.10.2-1) ...
kazisadmansakib_19101125@Sakib-19101125:~$ sudo apt-get autoremove
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
0 to upgrade, 0 to newly install, 0 to remove and 2 not to upgrade.
kazisadmansakib_19101125@Sakib-19101125:~$ free
               total        used        free      shared  buff/cache   available
Mem:        11196616      814968     5694232       39724     4687416    10026776
Swap:        2097148           0     2097148
kazisadmansakib_19101125@Sakib-19101125:~$
kazisadmansakib_19101125@Sakib-19101125:~$ df
Filesystem     1K-blocks     Used Available Use% Mounted on
tmpfs            1119664     1520   1118144   1% /run
/dev/sda3       25106692 14055700   9750308  60% /
tmpfs            5598308        0   5598308   0% /dev/shm
tmpfs               5120        4      5116   1% /run/lock
/dev/sda2         524252     6220    518032   2% /boot/efi
tmpfs            1119660      100   1119560   1% /run/user/1000
kazisadmansakib_19101125@Sakib-19101125:~$ du
4        ./.ssh
12       ./.local/share/keyrings
4        ./.local/share/backgrounds
```

```
 205  history
kazisadmansakib_19101125@Sakib-19101125:~$ uname -a
Linux Sakib-19101125 6.5.0-21-generic #21~22.04.1-Ubuntu SMP PREEMPT_DYNAMIC Fri
 Feb  9 13:32:52 UTC 2 x86_64 x86_64 x86_64 GNU/Linux
kazisadmansakib_19101125@Sakib-19101125:~$ top

top - 22:24:01 up 47 min,  1 user,  load average: 0.02, 0.23, 0.28
Tasks: 212 total,   1 running, 211 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.5 us,  0.7 sy,  0.0 ni, 98.7 id,  0.0 wa,  0.0 hi,  0.1 si,  0.0 st
MiB Mem :  10934.2 total,   5512.9 free,    799.8 used,   4621.4 buff/cache
MiB Swap:   2048.0 total,   2048.0 free,      0.0 used.   9787.8 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
  17889 kazisad+  20   0 4973672 335940 134176 S   8.1   3.0   0:52.10 gnome-s+
  18453 kazisad+  20   0  562312  51500  39512 S   0.9   0.5   0:04.40 gnome-t+
     16 root      20   0       0      0      0 I   0.3   0.0   0:02.80 rcu_pre+
  17251 root      20   0       0      0      0 I   0.3   0.0   0:00.89 kworker+
  18273 kazisad+  20   0 3067500  63192  45568 S   0.3   0.6   0:00.90 gjs
  32129 root      20   0 2020384  44476  32640 S   0.3   0.4   0:00.57 contain+
      1 root      20   0  167972  12916   8180 S   0.0   0.1   0:04.42 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.02 kthreadd
      3 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_gp
      4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_par+
      5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 slub_fl+
```

```
kazisadmansakib_19101125@Sakib-19101125:~$ man man
kazisadmansakib_19101125@Sakib-19101125:~$ man inro
                  for inro
                  19101125:~$ info
kazisadmansakib_19101125@Sakib-19101125:~$ whoami
kazisadmansakib_19101125
kazisadmansakib_19101125@Sakib-19101125:~$ hostname
Sakib-19101125
kazisadmansakib_19101125@Sakib-19101125:~$
```

```
kazisadmansakib_19101125@Sakib-19101125:~$ man man
kazisadmansakib_19101125@Sakib-19101125:~$ man inro
No manual entry for inro
kazisadmansakib_19101125@Sakib-19101125:~$ info
kazisadmansakib_19101125@Sakib-19101125:~$ whoami
kazisadmansakib_19101125
kazisadmansakib_19101125@Sakib-19101125:~$ hostname
Sakib-19101125
kazisadmansakib_19101125@Sakib-19101125:~$ man info
kazisadmansakib_19101125@Sakib-19101125:~$
```

kazisadmansakib_19101125@Sakib-19101125:~$ history
```
    1  ls
    2  mkdir Task 2
    3  cd Task 2
    4  cd Desktop
    5  mkdir Assignment 1_Tahsinul Islam Abir_19301166
    6  mkdir Assignment1_TahsinulIslamAbir_19301166
    7  cd Desktop
    8  mkdir Task2
    9  cd Task2
   10  touch task2.c
   11  ls
   12  gedit task2
   13  gcc -o t2 task2
   14  gcc -o Task2 task2
   15  gcc t2 task2.c
   16  gcc -o t2 task2.c
   17  gcc task2.c -o task2
   18  gcc -o task2 task2.c
   19  cd Desktop
   20  mkdir Assignment1_19301166
   21  ls
   22  cd Assignment1_19301166
   23  touch Task2.c
```

```
File: dir,      Node: Top,      This is the top of the INFO tree.

This is the Info main menu (aka directory node).
A few useful Info commands:

  'q' quits;
  'H' lists all Info commands;
  'h' starts the Info tutorial;
  'mTexinfo RET' visits the Texinfo manual, etc.

* Menu:

Basics
* Common options: (coreutils)Common options.
* Coreutils: (coreutils).        Core GNU (file, text, shell) utilities.
* Date input formats: (coreutils)Date input formats.
* Ed: (ed).                      The GNU line editor
* File permissions: (coreutils)File permissions.
                                 Access modes.
* Finding files: (find).         Operating on files matching certain criteria.
* Time: (time).                  time

-----Info: (dir)Top, 209 lines --Top-------------------------------------------
```

NAME
       man - an interface to the system reference manuals

SYNOPSIS
       man [man options] [[section] page ...] ...
       man -k [apropos options] regexp ...
       man -K [man options] [section] term ...
       man -f [whatis options] page ...
       man -l [man options] file ...
       man -w|**-W** [man options] page ...

DESCRIPTION
       man is the system's manual pager. Each page argument given to **man** is
       normally the name of a program, utility or function. The manual page
       associated with each of these arguments is then found and displayed. A
       section, if provided, will direct **man** to look only in that section of
       the manual.   The default action is to search in all of the available
       sections following a pre-defined order (see **DEFAULTS**), and to show only
       the first page found, even if page exists in several sections.

       The table below shows the section numbers of the manual followed by the
 Manual page man(1) line 1 (press h for help or q to quit)

File   Machine   View   Input   Devices   Help

Activities   Terminal   23 मार्च 22:29

NAME
       info - read Info documents

SYNOPSIS
       info [OPTION]... [MENU-ITEM...]

DESCRIPTION
       Read documentation in Info format.

   Frequently-used options:
       -a, --all
              use all matching manuals

       -k, --apropos=STRING
              look up STRING in all indices of all manuals

       -d, --directory=DIR
              add DIR to INFOPATH

       -f, --file=MANUAL
              specify Info manual to visit
 Manual page info(1) line 1 (press h for help or q to quit)

1. **sudo apt-get update**: This command Let us know about the new upcoming packages. For example here it is shown that ubuntu jammy-security package is in release

2. **sudo apt-get upgrade:** This command is used for upgrading all the existing packages. Here which packages are going to be updated are written down in 'The following packages will be upgraded' section.

3. **sudo apt-get install:** This command allows us to install a specific available package. For installation we need to simply write down the package name after the command and it will be installed after executing it. In this case, I have installed aft app
To get the installable packages list 'tab' is used.

4. **Sudo apt-get remove:** This command is used to remove a pre-installed app. In the previous section, apt is installed. Now for removing apt app I'm using the 'sudo apt-get remove' aft command.

5. **Sudo apt-get autoremove:** This command basically removes the unnecessary or less used packages which automatically come while installing an application in ubuntu. Here, it is shown that 2 less used packages are ready to remove and it will free up 973 kb space.

6. **Cd-** This command is used to change the current directory. Here, I want to change the directory to Downloads which was previously home/kazisadmansakib_19101125. To do that I have to
execute this command cd Downloads. Now my current directory is home/kazisadmansakib_19101125/Download

7. **Pwd-** This command shows the current working directory. Right now I'm in home/kazisadmansakib_19101125/Download which can be found as below

8. **Free-** With this command we can see the available free space in the current directory. Here used space amount is 3038176 and free space amount is 7129220.

9.**Df:** This command shows the available disk space. Here it is showing used space and available free space in separate disks .

10. **Du:** This commands works similar to df commands- showing the current states of individual blocks of disks.

11. **History:** This command basically shows up all the recent commands that were used previously

12. **Uname-a:**This command shows a broad description of the system.

13. **top**:This command shows the description of the ongoing system. Which file is currently running by which user etc are shown.

14. **man man:** Man command basically shows the user manual of a particular command. For example man man will describe the user manual of man command. It gives a descriptive overview about how it actually works.

15. **Man intro:** This command shows the user manual of linux. Here man refers to manual.

16. **Info:** This command usually shows broad information of the manual. Here we see, the basic, compression and other sections are available here where after executing

man intro command these are not shown..

17. **man-h:** Here we know, man basically shows the user manual of the command which is written after it. For example,-h command shows up the disc spaces. Now by giving man-h it will shows the manuals of disc spaces and other things related to it.

18. **Whoami:** This command shows the current existing username. Currently my username is kazisadmansakib_19101125 which is visible here.

19. **Hostname**: This command is used to show the current hostname. It is showing that my current hostname is sakib-19101125

20. **Ls -** This command stands for list, it lIsts down all the directories and files inside the present working directory or specified directory

21. **ls -l** : This command stands for Long listing, this allows you to see additional details about files like file size, permission, modified time, etc.